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- each ratchet at a position at which the ratchet cannot engage with the latch after the
- ratchets disengage from the latch, unless the detection device detects that the door is
- 33 located at the predetermined position.

# Please add new Claims 17, 18 and 19 as follows:

G1 /2 /2 /3

- 17. (New) The door closer as set forth in Claim 1, further comprising: a Positive Temperature Coefficient thermistor, which is a protective
- element.
- A8
- 18. (New) The door closer as set forth in Claim 11, further comprising:
- a Positive Temperature Coefficient thermistor, which is a protective
- 3 element.

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- 1 19. (New) The door closer as set forth in Claim 16, further comprising:
- a Positive Temperature Coefficient thermistor, which is a protective
- 3 element.

### **REMARKS**

Claims 1-16 are pending in this application. By this Amendment, Claims 1, 11 and 16 are amended. Claims 1, 11 and 16 are amended for clarification purposes. Claim 2 has been cancelled. New Claims 17, 18 and 19 have been added. No new matter has been added. Reconsideration in view of the above amendments and the following remarks is respectfully requested.

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### **Specification Objections**

Errors in the specification have been corrected to overcome the examiner's objection without adding new matter.

#### Claim Rejections

The Office Action rejects, under 35 USC § 103(a), Claims 1-16 over Ohta, et al. U.S. Patent No. 6,048,002 and Taga U.S. Patent No. 6,176,528 B1. These rejections are respectfully traversed.

"To establish prima facie obviousness of a claimed invention, all the claim limitations must be taught or suggested by the prior art." MPEP 2143.03 citing *In re Royka*, 490 F.2d 981, 180 USPQ 580 (CCPA 1974). Applicant asserts that the Ohta, et al and Taga references do not teach or suggest every claim limitation, as recited in independent amended Claims 1, 11 and 16. It is the contention of the Applicant that the detection device 85, 86, and 88 as taught in Taga differs greatly in form from that of the courtesy switch 46 in the present invention. The courtesy switch prevents premature door closure through disallowance of the ratchets from engaging with the latch. Independent Claims 1, 11, and 16, as amended, further distinguish the present novel invention from the prior art by adding limitations contained within the unchanged specification not found in the prior art.

Furthermore, Applicant respectfully disagrees with the esteemed Examiner's contention that Ohta, et al. and the present invention are "substantially the same". Comparing the claim language of the cited prior art to the present invention, looking at FIGURES 2-12 and 22 of Ohta, et al., and FIGURES 1-13 of the present novel invention

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will result in a reasonable conclusion that Ohta, et al. and the present invention are not "substantially the same".

Therefore, Applicant respectfully submits that independent Claims 1, 11 and 16 define patentable subject matter. Claims 2-10, depend from independent Claim 1; 12-15 and 18 depend from independent Claim 11, and Claim 19 depends from Claim 16. "If an independent claim is non-obvious under 35 U.S.C. 103, then any claim depending therefrom is non-obvious". *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988). Therefore, Applicant submits that said dependent claims also define patentable subject matter. Accordingly, Applicants respectfully request the withdrawal of the rejection under 35 USC § 103(a).

## **CONCLUSION**

Based on the foregoing amendments and remarks, Applicant respectfully submits that this application is in condition for allowance. Favorable consideration and prompt allowance of Claims 1-19 are earnestly solicited.

Should the Examiner believe that anything further would be desirable in order to place this application in better condition for allowance, the Examiner is invited to contact Applicants' undersigned representative at the telephone number listed below.

Attached hereto is a marked-up version of the changes made to the claims by the current amendment. The attached page is captioned "VERSION WITH MARKINGS TO SHOW CHANGES MADE".

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The Commissioner is hereby authorized to charge payment of any extension or additional fees associated with this or any other communication, or to credit any overpayment to Deposit Account No. 14-1080.

Respectfully submitted,

James E. Nillee

James E. Nilles

Attorney for Applicants Registration No. 16,663

Dated: October 1, 2002

NILLES & NILLES, S.C. U.S. Bank Center, Suite 2000 777 East Wisconsin Avenue Milwaukee, Wisconsin 53202 Telephone: (414) 276-0977

Facsimile: (414) 276-0982

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# **VERSION WITH MARKINGS TO SHOW CHANGES MADE**

Wherein deleted material is shown as [bracketed] material and inserted material is shown as underlined material.

#### IN THE SPECIFICATION:

# Page 5, paragraph 4, bridging Page 6, paragraph 1:

As shown in Figs. 2 to 4, the latch 8 includes an engagement portion 8d that engages with a coil spring 11, or an urging member. In the same manner, the first ratchet [11] 10 includes an engagement portion 10a that engages with the coil spring 11. The coil spring 11 is thus suspended between the engagement portions 8d, 10a. The first ratchet 8 and [the first] latch 10 are urged toward each other through the coil spring 11.

#### IN THE CLAIMS:

Please amend Claims 1, 3, 4, 6, 8, 11 and 16 as follows:

- 1. (Amended) A door closer that holds a door at a fully closed position by
  2 engaging with a prescribed engagement member, wherein, when the engagement member
  3 is disengaged from the door closer, the door moves to a released position that is located
  4 slightly separate from the fully closed position in a door opening direction, the door
  5 closer comprising:
- a latch, which engages with the engagement member, wherein the latch rotates between an initial position at which the latch receives the engagement member and a fully latched position, and wherein, when the latch rotates from the initial position

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to the fully latched position after receiving the engagement member, the door is moved to 9 10 the fully closed position; an urging member, which urges the latch toward the initial position; 11 12 a ratchet, which is urged toward the latch, wherein, when the latch reaches the fully latched position, the ratchet engages with the latch to hold the latch at the fully 13 latched position; 14 an actuation mechanism, which separates the ratchet from the latch to 15 16 disengage the ratchet from the latch, wherein, when the ratchet disengages from the latch, 17 the urging member returns the latch from the fully latched position to the initial position 18 such that the engagement member disengages from the latch and the door moves from the fully closed position to the released position; [and] 19 20 a [detection device] courtesy switch, which detects that the door is located at a predetermined position separate from the released position in the door 21 22 opening direction, wherein the actuation mechanism holds the ratchet at a position at which the ratchet cannot engage with the latch after the ratchet disengages from the latch, 23 24 unless the detection device detects that the door is located at the predetermined position[.]; 25 26 a motor, which drives the actuation mechanism; and 27 a controller, which controls the motor, said controller containing a timer having a settable reference time for latching operations, which when exceeded 28 29 causes said motor to run in an inverse direction to reverse the latching operation.

Please cancel Claim 2.

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- 3. (Amended) The door closer as set forth in Claim [2] 1, wherein the controller maintains the motor in a stopped state after the ratchet disengages from the latch, unless the detection device detects that the door is located at the predetermined position.
- 4. (Amended) The door closer as set forth in Claim [2] 1, wherein the controller controls the motor such that the actuation mechanism disengages the ratchet from the latch in accordance with an external instruction.
- 1 6. (Amended) The door closer as set forth in Claim [2] 1, wherein:
  2 the latch rotates from the initial position to the fully latched position via a
  3 latching start position;
  4 the ratchet is a first ratchet;
- the door closer further includes a second ratchet, which is urged toward the latch, wherein the second ratchet engages with the latch when the latch reaches the latching start position from the initial position; and
- the controller instructs the actuation mechanism to move the second ratchet such that the second ratchet rotates the latch to the fully latched position when the second ratchet engages with the latch.
- 8. (Amended) The door closer as set forth in Claim [2] 1, wherein the actuation mechanism includes a rotary body driven by the motor and a rotational position sensor that detects a rotational position of the rotary body, and the controller controls the motor in accordance with the rotational position of the rotary body detected by the rotational position sensor.

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1	11. (Amended) A door closer that holds a door at a fully closed position by
2	engaging with a prescribed engagement member, wherein, when the engagement member
3	is disengaged from the door closer, the door moves to a released position that is located
4	slightly separate from the fully closed position in a door opening direction, the door
5	closer comprising:
6	a latch, which engages with the engagement member, wherein the latch
7	rotates between an initial position at which the latch receives the engagement member
8	and a fully latched position, and wherein, when the latch rotates from the initial position
9	to the fully latched position after receiving the engagement member, the door is moved to
10	the fully closed position;
11	an urging member, which urges the latch toward the initial position;
12	a ratchet, which is urged toward the latch, wherein, when the latch reaches
13	the fully latched position, the ratchet engages with the latch to hold the latch at the fully
14	latched position;
15	an actuation mechanism, which separates the ratchet from the latch to
16	disengage the ratchet from the latch, wherein, when the ratchet disengages from the latch,
17	the urging member returns the latch from the fully latched position to the initial position
18	such that the engagement member disengages from the latch and the door moves from the
19	fully closed position to the released position;
20	a motor, which drives the actuation mechanism;
21	a controller, which controls the motor, said controller containing a timer
22	having a settable reference time for latching operations, which when exceeded
23	causes said motor to run in an inverse direction to reverse the latching operation;
24	and

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25 a [detection device] courtesy switch, which detects that the door is
26 located at a predetermined position separate from the released position in the door
27 opening direction, wherein the controller maintains the motor in a stopped state such that
28 the actuation mechanism holds the ratchet at a position at which the ratchet cannot
29 engage with the latch after the ratchet disengages from the latch, unless the detection
30 device detects that the door is located at the predetermined position.

16. 1 (Amended) A door closer that holds a door at a fully closed position by 2 engaging with a prescribed engagement member, wherein, when the engagement member 3 is disengaged from the door closer, the door moves to a released position that is located 4 slightly separate from the fully closed position in a door opening direction, the door 5 closer comprising: a latch, which engages with the engagement member, wherein the latch . 6 7 rotates between an initial position at which the latch receives the engagement member 8 and a fully latched position, and wherein, when the latch rotates from the initial position to the fully latched position via a latching start position between the initial position and 9 the fully latched position after receiving the engagement member, the door moves to the 10 fully closed position; 11

an urging member, which urges the latch toward the initial position;
a latching ratchet, which is urged toward the latch, wherein, when the
latch reaches the latching start position from the initial position, the latching ratchet
engages with the latch to rotate the latch to the fully latched position;

a holding ratchet, which is urged toward the latch, wherein, when the latch reaches the fully latched position, the holding ratchet engages with the latch to hold the latch at the fully latched position;

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19	an actuation mechanism, which separates the latching ratchet and the
20	holding ratchet from the latch to disengage the ratchets from the latch, wherein, when the
21	ratchets disengage from the latch, the urging member returns the latch from the fully
22	latched position to the initial position such that the engagement member disengages from
23	the latch and the door moves from the fully closed position to the released position;
24	a motor, which drives the actuation mechanism;
25	a controller, which controls the motor, said controller containing a timer
26	having a settable reference time for latching operations, which when exceeded
27	causes said motor to run in an inverse direction to reverse the latching operation;
28	and
29	a [detection device] courtesy switch, which detects that the door is
30	located at a predetermined position separate from the released position in the door
31	opening direction, wherein the controller maintains the motor in a stopped state such that
32	the actuation mechanism holds each ratchet at a position at which the ratchet cannot
33	engage with the latch after the ratchets disengage from the latch, unless the detection
34	device detects that the door is located at the predetermined position.

Please add new Claims 17, 18 and 19 as follows:

1 17. (New) The door closer as set forth in Claim 1, further comprising:

a Positive Temperature Coefficient thermistor, which is a protective

element.

(New) The door closer as set forth in Claim 11, further comprising:

a Positive Temperature Coefficient thermistor, which is a protective

a Positive Temperature Coefficient thermistor, which is a protective

element.

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- 1 19. (New) The door closer as set forth in Claim 16, further comprising:
  2 a Positive Temperature Coefficient thermistor, which is a protective
- 3 element.